ECHO Data Model Review Issues Summary

ID	Table	Column	Action	First Discussed	Status	BMGT
Description/		**Recommended Action/**	**Comment/**	**Action**		

ChangeType:

34 COLL_DOCUMENT	Update	6/3/2002 Closed	☑

D:What URLs should be maintained as Document metadata?

R:All URLs related to the Collection other that the data itself should use CollectionDocument attributes. A set of Valids should be defined for the DocumentType to facilitate GUI clients. "Disclaimer", "ScienceDataTeamWebPage" are examples of DocumentTypes that
would facilitate the ECHO clients. DocumentPointer should be renamed DocumentURL for consistency.

C:Can ECS Data Pool's metadata link be a granule document?

A:Change the name to DatasetOnlineResource. What should be the list of Valids for DocumentType?

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Collection	Provider	Client	Ingest Collection DTD	Online
Online	Client		Ingest Granule DTD	
			Results Collection DTD	
			Results Granule DTD	

135		7/16/2002 Closed	☐

D:Clients are indifferent to negated searches. Should we remove support for negation? It is quite a resource intensive query.

C:The negation was originally derived from the OGC common query language.

A:Look at ways to detect and limit runaway queries and squash if necessary. Evaluate removing negation.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Query Language	Client	Client	AQL DTD	AQL

134		Update	7/16/2002 Closed	☐

D:Support search on multiple PSAs in one Query.

C:Currently each search criteria can be specified only once. But user may want to search for granules/collections that have both PSA1 and PSA2, in that case PSA searches need to specified more than once.

A:Do it.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Query Language		Client	AQL DTD	AQL
PSA				

133 COLL_PSA	PSA_NAME, PSA_VALUE	Add	7/16/2002 Closed	☐

D:Add a Collection level search on PSA. Collections can have Collection level values for PSAs. The definition of PSA should be same as the PSA search at the Granule level.

A:Do it.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Query Language		Client	AQL DTD	AQL
PSA				

| 132 | ALL_GRANULES | PRODUCER_GRA NULE_ID | Add | 7/16/2002 | Closed | ☐ |

D:Add a search on ProducerGranuleID (originally called LocalGranuleID, renamed in the Wrap up meeting on 7/22/2002)

A:Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Query Language		Client	AQL DTD	AQL

| 131 | | | Update | 7/16/2002 | Closed | ☐ |

D:Rename search on granuleId to search on ECHOGranuleID

A:Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Query Language		Client	AQL DTD	AQL

| 136 | | | Update | 7/16/2002 | Closed | ☐ |

D:Rename search on browseOnly as OnlyDataWithBrowse

C:MB: It is a good thing to organize these flag/function query items together. Other people should understand that these do not relate directly to a field in the data model.

A:Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Query Language		Client	AQL DTD	AQL
Browse				

| 33 | ONLINE_UR | | Update | 6/3/2002 | Closed | ☑ |

D:What kind of URLs should be part of OnlineAccessURL?

R:Collection level OnlineAccessURL should only have URL directly to the data. So only URLs that are direct URL to an ftp/http access to the data itself can use this metadata.

C:All other URLs related to the Collection should be specified using DatasetOnlineResource metadata. See next Issue What URLs are coming from data pool update?

A:OnlineAccessURLs will only point to data. Refers to issue 35.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Provider	Provider	Ingest Collection DTD	Online
API-Data		Client	Ingest Granule DTD	
Online			Results Collection DTD	
			Results Granule DTD	
			Ingest Browse DTD	

ID	Table Description/	Column Recommended Action/	Action Comment/	Action	First Discussed	Status	BMGT
112				Add		Closed	☐

D:Regarding orders, each order address (contact, billing, shipping) should have an email.

A:Do it. (Done)

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
API-Transactions		Provider	Provider Order Proxy DT	Trivial Maintenance
Provider Order Interactions		Client		

35 ONLINE_UR			Update	7/16/2002	Closed	☐

D:Now that the OnlineAccessURL can have URLs that directly give access to the data and also those that link you to information that enables to get the data, what results should the Search criteria "OnlyOnlineData" (originally called onlineOnly) return?

C:If we support multiple data formats for the online available e.g. HDF-EOS, GEO-TIFF etc and if we only consider HDF-EOS as Science data that do we also need to limit the results to only those Collections/Granules that have at least 1 OnlineAccessURL with Mime as HDF-EOS? (This is a separate Issue). By definition, this link (onlineaccessurl) is a link to science data. See issue 36 for a way to distinguish if needed.

A:Dependent on Issue 33. This will not be the case. Therefore no problem. No action needed here.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Provider	Client	AQL DTD	Online
Query Language	Client			AQL
Online				

36 ONLINE_UR				7/16/2002	Re-Opened	☐

D:If we support multiple data formats for the online available e.g. HDF-EOS, GEO-TIFF etc and if we only consider HDF-EOS as Science data that do we also need to limit the results to only those Collections/Granules that have at least 1 OnlineAccessURL with Mime as HDF-EOS?

R:Bring in George Percivall and Yonsook Enloe. If there are "types" of OnlineURLs then, it should be possible to search. We might need to add a label to the URL which is probably set at the collection level.

A:Make MIME type a searchable field. ** 9/27 Clarification - OnlineURLs will only be those that ARE considered Science data. All other versions of the data will be put into OnlineResource. Still the data could be of different MIME types. So if still the client wants to differentiate between different types of "science" data, they can query for online science data with a particular mime type.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Provider	Client	AQL DTD	Online
Query Language	Client			AQL
Online				

| 36 | ONLINE_UR | | | 7/16/2002 | Re-Opened | ☐ |

D:If we support multiple data formats for the online available e.g. HDF-EOS, GEO-TIFF etc and if we only consider HDF-EOS as Science data that do we also need to limit the results to only those Collections/Granules that have at least 1 OnlineAccessURL with Mime as HDF-EOS?

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A:Make MIME type a searchable field. ** 9/27 Clarification - OnlineURLs will only be those that ARE considered Science data. All other versions of the data will be put into OnlineResource. Still the data could be of different MIME types. So if still the client wants to differentiate between different types of "science" data, they can query for online science data with a particular mime type.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Provider	Client	AQL DTD	Online
Query Language	Client			AQL
Online				

| 48 | | | Update | | Closed | ☑ |

D:Since ECHO has its own Insertdatetime, LastUpdateDateTime and DeleteDateTime do we need to maintain these fields from the Provider?

R:Maintain Provider InsertTime, LastUpdate and DeleteTime within ECHO for internal processing use. At the Client Review meeting, Clients do not need to search on these fields from the Provider. They only need to be able to search on the ECHO dates and times.

C:There may be others that may need this as a basis of search that weren't represented. Do not rule it out as a basis of search.

A:Should be available in the result XML. Should be named ProviderInsertDateTime, ProviderLastUpdateDateTime, ProviderDeleteDateTime.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection		Client	Ingest Granule DTD	Trivial Maintenance
Granule			Ingest Collection DTD	
Query Language			Results Collection DTD	
Ingest			Results Granule DTD	
Dates				

| 50 | | | Add | 6/13/2002 | Closed | ☑ |

D:Do we need Document URL at the Granule level?

R:It was recommended to add Document information at the granule level as well, but do we have examples of where there is documentation at the granule level?

A:Create GranuleOnlineResource at the granule level. It will have a valids list of OnlineResourceType, a MIME type, a URL and a description.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Granule	Provider	Client	Ingest Granule DTD	Online
Online			Results Granule DTD	

51			Add	6/13/2002	Closed	☑

D:Add a Field called Mime for all URLs including ONLINE_URL, BROWSE, COLL_DOCUMENT, and GR_DOCUMENT

C:See Issue on OnlineAccessURL. Mime will enable Clients to know the data format at the end of the URL. If the data format is not what they were looking for or if it is a format they cannot read they can choose not to do an expensive ftp/http get etc.

A:Related to issues 33-36. Related to issue 50. Add MIME Type to OnlineAccessURL, GranuleOnlineResource, DatasetOnlineResource.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Provider	Client	Ingest Granule DTD	Online
Granule			Ingest Collection DTD	
API-Data			Ingest Browse DTD	
Online			Results Collection DTD	
			Results Granule DTD	

130			Update	7/16/2002	Closed	☐

D:Rename search criteria "globalGranulesOnly" to OnlyGlobalGranules. Remove the value attribute that takes only 1 value.

A:Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Query Language		Client	AQL DTD	AQL
Spatial				
Global				

138	DISCIPLINE_KEYWORD, DETAIL_PARAMETER			7/16/2002	Closed	☐

D:Add a parameter search at the granule level as well. It is assumed that granule level parameters are a subset of collection level parameters. This will be validated.

C:Do we need to support the full scale Discipline keyword search at the granule level?

A:Add a granule level parameter search for all levels. Refers to issue X where the data model is updated.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Query Language		Client	AQL DTD	AQL
Discipline Keyword Stack				
Granule				

| 139 | GR_MEASURED_PAR AMETER | | Add | | 7/16/2002 | Closed | ☐ |

D:Add a search on Measured Parameters. Clients are interested in search on the ScienceQualityFlag of the Parameter. Query would look like

<!ELEMENT MeasuredParameter (Name, ScienceQualityFlag)>
<!ELEMENT Name (#PCDATA)>
<!ELEMENT ScienceQualityFlag (list)>

R:All flags and stats should be included. Ors are a possibility, but ANDs are the default. We should support searching multiple parameters.

A:Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Query Language		Client	AQL DTD	AQL

| 141 | | | Update | | 7/16/2002 | Closed | ☐ |

D:Spatial search using Box is only supported in Oracle for spatial data using the Cartesian Coordinates. Clients would like to support Box search on geodetic data as well. Currently if clients want to search using spatial Box they must specifically search only those providers that use cartesian system to store the spatial data. If clients issue a query for "ALL" providers and specify a spatial Box, the query fails since at least one of the providers is geodetic and if that one fails the entire query fails.

R:Ross suggested that the Box can be converted to a Geodetic Box by converting it to an densified polygon. This way box searches can be supported on Geodetic data as well.

A:Do it. 2/13 KOW: Maitreyee already changed it to remove Box as an option.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Query Language		Client	AQL DTD	AQL
Spatial				

| 137 | | | | | 7/16/2002 | Closed | ☐ |

D:Update DayNightFlag attribute "value", to take values "DAY", "NIGHT", "BOTH", "DAYONLY", "NIGHTONLY". Search on DAY should return granules that were taken in Daylight and granule that were taken partially in Day and Night. Similarly search on NIGHT should return granules taken at Night and granules taken partially at day and partially at night. Search on DAYONLY or NIGHTONLY should not return granules that are partially taken in day and partially at night.

R:Do not do as described. Let the client search for DayNightFlag = DAY or DayNightFlag = Both instead of DAY=BOTH or DAY.

C:Confirm on ingest that the valids are met.

A:Accepted as recommended.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Query Language	Rich Ullman	Client	AQL DTD	AQL
Granule	IIST			
	Jon Pals			

| 35 | ONLINE_UR | | Update | 7/16/2002 | Closed | ☐ |

D:Now that the OnlineAccessURL can have URLs that directly give access to the data and also those that link you to information that enables to get the data, what results should the Search criteria "OnlyOnlineData" (originally called onlineOnly) return?

C:If we support multiple data formats for the online available e.g. HDF-EOS, GEO-TIFF etc and if we only consider HDF-EOS as Science data that do we also need to limit the results to only those Collections/Granules that have at least 1 OnlineAccessURL with Mime as HDF-EOS? (This is a separate Issue). By definition, this link (onlineaccessurl) is a link to science data. See issue 36 for a way to distinguish if needed.

A:Dependent on Issue 33. This will not be the case. Therefore no problem. No action needed here.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Provider	Client	AQL DTD	Online
Query Language	Client			AQL
Online				

| 147 | GR_DISCIPLINE_KEY WORDS | | | 7/16/2002 | Open | ☑ |

D:Ask EDC for sample data where Keyword Stack are defined at the Granule level. There was a suggestion to look at Aircraft Scanner Dataset.

R:Talk to Stu Doescher and V0 EDC DAAC (KC).

A:11/12: Contact EDC (Doug Jaton or Jim Lacasse) regarding this.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Granule	EDC	Provider	Ingest Granule DTD	Model Modifications
API-Data	Michael Burnett	Client		
Discipline Keyword Stack				

ChangeType: Delete

| 20 | STORAGE_MEDIUM | All | Remove | 6/3/2002 | Closed | ☑ |

D:What is Storage Medium used for? ECHO does not need to know about how the data is stored by the Provider. ECHO Clients may only be interested in knowing whether the data is online or not. That is covered by the OnlineAccessURL.

R:Remove from the ECHO DM after conferring with ECS

A:Remove it from the ECHO DM.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Collection	Provider	Client	Ingest Granule DTD	Model Modifications
API-Data	ECS		Results Granule DTD	

| 6 | ALL_COLLECTION | Type | Remove | 6/3/2002 | Closed | ☑ |

D:From the 2nd meeting (6/13/2002) according to Jon Pals this takes values like ScienceData, QA, Browse etc. Meaning that this field is used to distinguish between Science Data Collections and Collections used for Browse, QA etc. Robin specified that as a Rule ECHO will only accept Science Data Collections. This is an opportunity to convert Collection of Browse for MISR to normal browse for Science Collection. Guy Swope (according to Robin) is already trying to convert ERS Browse to normal browse.

R:Remove Type from ECHO

A:Remove Type

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Collection	Provider	Provider	Ingest Collection DTD	MultiType Collections
API-Data			Results Collection DTD	
MultiType Collections				

| 57 | GR_STORAGE_MEDIU M, GR_FILE_STORAGE | | Remove | 6/13/2002 | Closed | ☑ |

D:Do we need to maintain GR_STORAGE_MEDIUM, GR_FILE_STORAGE?

R:Storage Medium says what medium (e.g. Tape etc, online) the data is stored at the Provider Site. This information is only relevant to ECHO if the data Is online. This can be obtained by searching for OnlineAccessURL. FileStorage information is used to store names of files associated with this data in case the data is in the File System at the Provider site. ECHO does not need to know this information

C:At a previous discussion with Keith (a looong time ago), he had mentioned that when the Users order data from EDG they are sent a whole bunch of files. They are not able to determine what granule is associated with what file. Do we need to maintain the File Storage information to provide this association to the users?

A:No.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Granule	Provider	Client	Ingest Granule DTD	Model Modifications
API-Data	Client		Results Granule DTD	
	Rich Ullman			

ID	Table Description/	Column Recommended Action/	Action Comment/	Action	First Discussed	Status	BMGT
44	ALL_GRANULES	ACCESS_CONSTRAINT	Remove		6/3/2002	Closed	☑

D:Do we need the AccessConstraint field that is free text field in the Granule metadata?

R:Remove AccessConstraint as a metadata field at the Granule Level. The requirement on ECHO for access constraints at the granule level is to support Collections (and their granules) to be invisible to the public but be accessible to the Ops team when it is evaluating the Collection. ECHO team needs to discuss how this will be incorporated; whether this collection will only be made visible in a test environment and not ingested into the operational system until it is passed by the provider and the ECHO Ops team or whether it would be ingested into the Operational system but made visible only to the ECHO Ops team through some ECHO specific mechanism.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Granule	ECHO	Provider	Ingest Granule DTD	ACL
ACL			Results Granule DTD	

ID	Table Description/	Column Recommended Action/	Action Comment/	Action	First Discussed	Status	BMGT
21	COLL_REVIEW, GR_REVIEW	All	Remove		6/3/2002	Closed	☑

D:Is the CollectionReview metadata used? ECHO would like to remove this information.

R:Find out whether this information is being used, and for what purpose it is being used. Confirm with FGDC/ISO standard. Remove if not being used and not conforming to standards.
At the 6/13/2002 meeting it was decided to remove GR_REVIEW but maintain COLL_REVIEW

C:GLAS is the only product that uses COLL_REVIEW. This is a candidate for becoming a PSA.

A:ECHO recommendation is to make it a PSA. Confirm with ISO/FGDC standard. 11/12: Make it a PSA.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Provider	Client	Ingest Collection DTD	Model Modifications
Granule	ECS		Results Collection DTD	
API-Data	Janet Hylton			

ID	Table Description/	Column Recommended Action/	Action Comment/	Action	First Discussed	Status	BMGT
65	GR_PROCESSING_HISTORY				6/13/2002	Closed	☑

D:Remove

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Granule	Provider		Ingest Granule DTD	Model Modifications
API-Data			Results Granule DTD	

18 ANALYSIS_SOURCE	All		Remove	6/3/2002	Closed	☑

D:Do we need Analysis Source as a separate metadata? Can this not be represented in terms of Platform-Instrument-Sensor trio? Analysis Source is usually used to represent data with original Source as something like Reports, Charts, Publications etc. People tend to use Platform only when the source of the data is from an aircraft. This is not necessarily true. Definition of Platform can be generalized to mean any originator of data. Most fields of the Analysis source seemed to map to Sensor. Robin also mentioned that this could be for the ECHO Ops team to decide what they want Platform to mean and mandate the Providers send metadata to use Platform even if the data does not originate from an aircraft.

R:Bring this Issue up when there is a larger audience and talk with Rich Ullman. Rich says calling them all Platforms is cool, ask GCMD if further consultation is needed.

C:This Issue was not resolved. No one seemed to remember the main reason for ECS to create Analysis Source as a separate piece of metadata and whether this was really required in ECHO.

A:Should we maintain Analysis Source as separate piece of metadata instead of using Platform-Instrument-Sensor? Do we need to add DisciplineTopicParameters group under AnalysisSource. 9/16 group recollects that this has been addressed and analysis source is now expressed as platform…

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Rich Ullman	Client	Ingest Collection DTD	Model Modifications
API-Data	Provider		Results Collection DTD	
			Ingest Granule DTD	
			Results Granule DTD	

11 ALL_COLLECTION	Max Price of Granule		Add	6/3/2002	Closed	☑

D:Add a field MaxPriceOfGranule to indicate the max price of any granule in the Collection (Missing total price of granules)

R:Total price of granules, total size should not be in the conceptual model.

A:Remove total price of granules. Leave total size and total number of granules in a collection. ECHO will calculate the total size of granules in the collection and the total number of granules. MaxPriceOfAGranule will be provided by the provider.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection		Client	Results Collection DTD	Model Modifications
Granule			Ingest Collection DTD	
API-Data				

104			Remove	6/27/2002	Closed	☐

D:Remove CampaignLongName, CampaignStartDate and CampaignEndDate from Granule DTDs because Campaign short name is all that is needed to reference it.

A:Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Granule			Ingest Granule DTD	Trivial Maintenance
API-Data			Results Granule DTD	

| 55 | GR_PROCESSING_QA, GR_QA_GRANULE | | | Remove | 6/13/2002 | Closed | ☐ |

D:Remove these.

C:Robin wants to make sure that we find out what the upcoming use of QA granules is before we remove them. Refer to Robin's email concerning QA granules.

A:These need to be accessible through product ordering. No need to differentiate metadata about supporting files and the actual granule. Remove the tables.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
API-Data	IIST		Ingest Granule DTD	Model Modifications
Granule	Jon Pals		Results Granule DTD	QA
QA				

| 89 | | | | Remove | | Closed | ☐ |

D:Remove ParentCollection

A:Do it.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Collection		Provider	Ingest Collection DTD	MultiType Collections
MultiType Collections		Client		

| 79 | | | | | | Open | ☐ |

D:Archive Center should have been the same as the ProviderID so why do we need this

R:It seems that some Providers may have divided their data into different centers and hence this field may indicate which center within the Provider site is the data located in. It is not clear whether this is any information useful in ECHO. EDC may have information that makes Archive center relevant. Need to ask them about its usefulness to ECHO.

C:9/19: Rich thinks that our use of provider is redundant to archive center. Rich says if EDC is no problem, then remove it.

A:Ask EDC. - Doug Jaton or Jim Lacasse.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Collection	Provider			Model Modifications
	EDC			

| 101 | | | | Remove | 6/27/2002 | Closed | ☐ |

D:Remove the PlatformCharacteristic group from Granule Ingest DTD, this information is specified at the Collection level

R:Also remove this from the Conceptual data model

A:Do it.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Granule			Ingest Granule DTD	Trivial Maintenance
API-Data			Results Granule DTD	

60 GR_VERSION_HISTORY   Remove   6/13/2002 Closed ☐

D:Remove GR_VERSION_HISTORY
A:Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Granule	Provider		Ingest Granule DTD	Model Modifications
API-Data			Results Granule DTD	

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103   Remove   6/27/2002 Closed ☐

D:Remove SensorLongName and SensorTechnique from the Granule Ingest DTD because short name is suffcent and already present.
A:Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Granule			Ingest Granule DTD	Trivial Maintenance
API-Data			Results Granule DTD	

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69 BROWSE   PRODUCTION_DATE   Remove   6/13/2002 Closed ☑

D:Remove ProductionDate attribute for Browse
A:Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Granule		Client	Ingest Browse DTD	Trivial Maintenance
API-Data			Results Collection DTD	
Browse			Results Granule DTD	

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55 GR_PROCESSING_QA, GR_QA_GRANULE   Remove   6/13/2002 Closed ☐

D:Remove these.
C:Robin wants to make sure that we find out what the upcoming use of QA granules is before we remove them. Refer to Robin's email concerning QA granules.
A:These need to be accessible through product ordering. No need to differentiate metadata about supporting files and the actual granule. Remove the tables.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
API-Data	IIST		Ingest Granule DTD	Model Modifications
Granule	Jon Pals		Results Granule DTD	QA
QA				

ID	Table	Column	Action	First Discussed	Status	BMGT
	Description/	Recommended Action/ Comment/	Action			

102   Remove   Closed   ☐

D:Remove InstrumentLongName, InstrumentTechnique and NumberOfSensors from Granule Ingest DTD. The Sensors specified for an instrument at the granule level must be only those that are used to produce the particular granule.

A:Do it.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Granule			Ingest Granule DTD	Trivial Maintenance
API-Data			Results Granule DTD	

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22   COLL_LOCALITY   All   Remove   6/3/2002   Closed   ☑

D:What is Collection Locality information used for? It seemed that this field holds free text based spatial keywords. It is decided that ECHO will request additions of new spatial keywords to be added to the GCMD list of valids. Should CollectionLocality still be maintained in ECHO? Guy Swope verified (in an email) that CollectionLocality is not being used by ECS.

R:Remove Collection Locality from ECHO DM

C:This is related to the Issue on GranuleLocality

A:Remove Collection Locality from ECHO DM

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Collection		Client	Ingest Collection DTD	Keyword
API-Data			Results Collection DTD	Model Modifications
Spatial				
Keywords				

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68   COLL_PARENT_XREF   Remove   6/13/2002   Closed   ☐

D:Remove. Used to support MultiType Collections. ECHO is not going to implement it at this time.

A:Do it.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Collection			Ingest Collection DTD	MultiType Collections
MultiType Collections				
API-Data				

31	ALGORITHM		Remove		6/3/2002	Closed	☑

D:what level of information should ECHO maintain regarding Algorithms?

R:The only information related to Algorithms that ECHO should maintain is AlgorithmName, AlgorithmVersion, and Description. All other information including algorithmContact information should be removed.

A:As recommended.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Provider	Client	Ingest Collection DTD	Model Modifications
API-Data		Provider	Results Collection DTD	

100			Remove		6/27/2002	Closed	☐

D:Remove PlatformLongName and PlatformType from the Granule Ingest DTD because this is coming in at the collection level and the granule only needs the short name to reference it.

A:Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Granule			Ingest Granule DTD	Trivial Maintenance
API-Data			Results Granule DTD	

40	ALL_GRANULES	SHORT_NAME	Remove		6/13/2002	Closed	☐

D:ShortName in the ALL_GRANULES table was supposed to contain the short name of the granule. It is not clear whether providers are maintaining a Short name for granules that is different from the GranuleUR.

R:It seemed like a candidate for removal but confirm with Clients

A:Remove this.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Granule	Provider	Client	Ingest Granule DTD	Trivial Maintenance
Query Language	Client		Results Granule DTD	

ChangeType: Docs

13				6/3/2002	Closed	☐

D:ECHO adopted attribute definitions from ECS. For certain attributes ECS definitions may not apply to ECHO. ECHO needs to maintain its own definitions

R:Refer to CIP Catalog Attribute Definitions to finalize ECHO Metadata definitions.

A:ECHO will update attribute definitions and email them for Review

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Collection	All	Provider		Trivial Maintenance
Granule		Client		
API-Data				
DM Definitions				

41	ALL_GRANULES	GRANULE_MB_SIZE	Update	6/13/2002	Closed	☑

D:Should GranuleSize be made mandatory?

R:SizeMBDataGranule field will not be made mandatory but the ECHO Ops team may want to strongly recommend that this field be filled in.

At the meeting on Ingest Granule DTD (6/27/2002):: SizeMBDataGranule is the size of the uncompressed granule. This is an optional field but Providers must be encouraged to provide it. This will specially be required if the Order options for granules depend on how many granules fit on one CD or tape etc. Add another field called CompressedSizeMBDataGranule? that specifies the achievable size of the granule after compression using some compression algorithm.

C:Providers may support multiple Compression algorithms for which the CompressedSizeMBDataGranule may have different values but ECHO will only support this one field instead of going into details of the Compression algorithm. The Provider should be encouraged to fill in the lowest achievable compression using any of the algorithms they support.

A:As recommended.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Granule	Provider	Provider	Ingest Granule DTD	Model Modifications
		Client	Results Granule DTD	

43	ALL_GRANULES	PRODUCTION_DATE_TIME	Update	6/3/2002	Closed	☐

D:Need to make clear that ProductionDateTime is used for RollingTemporal Restriction. Should this be in the description of the attribute in the data model or is it sufficient to state this in the documentation for RollingTemporal Restriction?

A:Description in user's guide and online reference for RTR.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Granule	Provider	Provider		Trivial Maintenance
ACL				

ChangeType: Ingest

80 SpatialInfo					Closed	☐

D:SpatialCoverageType only allows values Horizontal, Vertical and Both
R:Enforce these as valids.
A:Do it.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Collection				Trivial Maintenance
Spatial				

45		CLOUD_COVER	Update	6/13/2002	Closed	☐

D:Do we need to promote CloudCover as Core to speed search?

R:Need to support search on CloudCover as a promoted PSA that has a different name per Collection. Currently ECHO supports promotion of CloudCover as the same (single) PSA for all the Collections from a Provider.

C:9/19: This becomes a proxy function. It needs to provide a mapping at the collection level rather than the current provider level.

A:How will the Providers indicate to ECHO what PSA represents the CloudCover that should be enabled for CloudCover search? Should this be mapped in the Ingest Proxy to a "CORE" CloudCover search field? CloudCover needs to be a core part of the data model. Providers will need to determine a mapping to it.   Still need the providers to give us enough information to properly model the field.
10/24: The field should vary from 0 to 100.
2/13 KOW- Leave cloud cover as core, in ingest refactoring account for promoting issues.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Granule	Provider	Client	AQL DTD	Model Modifications
PSA				
Query Language				
Cloud Cover				

122				7/17/2002	Closed	☐

D:ISO has valids for Role in Contact Information. We may want to maintain the same list of valids in ECHO.
C:Perhaps ECHO can have a superset of the ISO valids. This is a question of how we map.
A:Analyze.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
ISO		Provider		Trivial Maintenance
Ingest		ECHO Ops		

ID	Table	Column	Action	First Discussed	Status	BMGT
119			Update		Closed	☐

D:Consult Ben and George about a Bounding Box for a Polygon that goes over the pole or crosses the date line. In the ISO document that Janet was referring to it required that either a Bounding Box or a Spatial Keyword be present, it doesn't allow a Polygon as another option. Some data in ECHO will not have any spatial information. E.g. Data collected by observing the Sun. Such data will not be ISO compliant as is. ECHO Providers may want to add appropriate Spatial Keywords for this type of data. In this case "Solar" could be a Spatial Keyword. When this kind of Collection is first sent to ECHO, the Ops team should make sure that this data is allowed to not have spatial information. The Validation process then should be given a directive to pass this Collection's data even though it doesn't have spatial information as long it does have spatial keywords. These procedures are not in place currently but will need to be added.

A:This is related to granule /collection locality issues. Issues 22 and 64

11/12: Accepted.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
ISO	Ben Kobler	ECHO Ops		Model Modifications
Spatial	George Percivall			

ID	Table	Column	Action	First Discussed	Status	BMGT
27	COLL_SPATIAL_KEY WORDS	All	Update	6/3/2002	Re-Opened	☐

D:How should ECHO maintain Valids for Spatial and other keywords?

R:Maintain Spatial Keywords in sync. With GCMD. In the past GCMD has been willing to update their list of keywords on request. ECHO should validate keywords to only come from GCMD list of spatial keywords and have a process to maintain the list in sync. With GCMD and request updates to the GCMD list when found appropriate. Same should be applicable for Temporal and Discipline keywords

C:9/27 **GCMD: ECHO or anyone from the science community can suggest new location
keywords or updates to other keywords. If you have location keywords that
are currently not part of the GCMD keyword list, please send your requests
to me and they will be considered. The GCMD science team reviews keyword
requests, solicits opinions and feedback from the sceince community, and
thoroughly examines the implications for adding new keywords in the
context of the existing keyword structure. A set of rules and procedures
has been established:
http://gcmd.nasa.gov/Resources/valids/rules.html
and
http://gcmd.nasa.gov/Resources/valids/valids_proc.html

We provide a tighter control of the GCMD Earth science keyword lists and
have a procedure that was established with ECS and EDG...especially with
regards to modifying the science keywords. ECHO may want to follow the
same procedures (I'll have to locate the documents and send to you).

A:What process should ECHO follow to keep keyword valids with GCMD.   Patrick(OPS) will define. 2/13
KOW> Really part of ingest refactoring

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection		Client		Trivial Maintenance
Granule		Provider		
Spatial				
Temporal				

				6/3/2002	Closed	☐
14						

D:ECHO does not have support for customized Validation at a Collection level

R:ECHO should provide a Data Dictionary for Validation. ECHO shall maintain a master list of valid information. Each Provider will have a subset of this master list as its Validation list/Procedure. Each Collection for a Provider will maintain its own list as a subset of the Provider's list and the granules will be validated against the validation list/procedure of the Collection they belong to. As a start the Validation should conform to what is currently being done for EDG.

C:ECHO needs to come up with a Validation Schema. Need to confirm with ECHO Ops that the Validation procedure conforms to their guidelines.

A:ECHO should design validation approach. High priority. 2/13 KOW> Included in ingest refactoring

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Collection	ECHO Ops	ECHO Ops		Trivial Maintenance
Granule				
DM Definitions				

ChangeType: Insert

25			Add		Re-Opened	☑

D:ECHO Should support search on Spatial Resolution. Current model has LongitudeResolution and LatitudeResolution. Emails from Robin, Chris Lynnes and Tim Rhyne after the meeting suggest that Longitude and Latitude Resolution may be required fields but may not be appropriate metadata to be searched on.

R:ECHO must add a field called NominalSpatialResolution that could take values like "25 meters" etc. This field is a number and its unit should be meters.

C:**9/27 According to Gene Major GSMD is currently considering Valids for Spatial Resolution:

Less than 1 meter
1 meter - 10 meters
10 meters - 100 meters
100 meters - 1 km
1 km - 10 km
10 km - 100 km
greater than 100 km ---- If we would use these valids we will not be able to perform range search. We should not use GCMD keywords for this field.

A:Create NominalSpatialResolution as a non-negative real with implied units of meters. 2/13 KOW> This should be range searchable.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Provider	Client	Ingest Collection DTD	Spatial
Spatial	Client		Results Collection DTD	
API-Data				

53					Closed	☑

D:How does ECHO provide center point information of a granule to the Clients?

R:ECHO will need to add CenterPoint metadata at the Granule level. The Provider should provide this information. In case of ECS as this information may not be provided, ECHO may need to handle this in the Proxy that will transform ECS metadata into ECHO format before ingest. The Proxy will use the same algorithm used in the ECS-V0 gateway. This algorithm is known to generate incorrect results for NOSE data.

C:This is useful for client's to provide 508 compliance of a graphically represented granule location. 9/18 Should we define it as <!ELEMENT CenterPoint Point> where Point is defined as in GML?

A:Centerpoint is required to be part of the data model. Question: If you have spatial, then is this required? YES.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Granule	Provider	Client	Ingest Granule DTD	Spatial
Results	Rich Ullman		Results Granule DTD	IngestProxy
API-Data	Ross Swick			
Spatial	Client			

| | | | | | Closed | ☑ |

53

D:How does ECHO provide center point information of a granule to the Clients?

R:ECHO will need to add CenterPoint metadata at the Granule level. The Provider should provide this information. In case of ECS as this information may not be provided, ECHO may need to handle this in the Proxy that will transform ECS metadata into ECHO format before ingest. The Proxy will use the same algorithm used in the ECS-V0 gateway. This algorithm is known to generate incorrect results for NOSE data.

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A:Centerpoint is required to be part of the data model. Question: If you have spatial, then is this required? YES.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Granule	Provider	Client	Ingest Granule DTD	Spatial
Results	Rich Ullman		Results Granule DTD	IngestProxy
API-Data	Ross Swick			
Spatial	Client			

9 GCMD_DIF_ID Add 6/3/2002 Open ☑

D:DIF_ID should be added to the CollectionLevel Metadata. A Collection can have more than one DIF and hence more than one DIF_IDs. Should ECHO support multiple DIF_IDs for a Collection?

C:Should this be a searchable field? There may be more than one collection associated with a single DIF_ID. 11/12: For ESDIS, a collection only has one DIF. If a collection is registered with more than one provider, then there could be more than one.

A:Clarify with Gene that each Collection can have more than 1 DIF_ID. 9/16: Rich feels that we should add it. This should be searchable. Verify multiplicity with Gene. We think it is likely there are multiple DIFS. 11/12: Talk with Frank Corprew. Sounds like we can assume that a collection/provider has a DIFID which may be shared by more than one provider/collection. Ask GCMD for conceptual model. Ask Gene if in context passing, can they handle more than one DIFID passed in? Action: This should be a single text field that can be passed to GCMD for context passing. Max 31 characters alphanumeric, underbar, hyphen, period.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Collection	GCMD (Gene Major)	Provider	Ingest Collection DTD	Model Modifications
API-Data		Client	Results Collection DTD	
Collection/Granule Naming				

29 COLL_PSA PSA_VALUE Add 6/3/2002 Closed ☑

D:ECHO should support PSAs with values at the Collection level

R:Add a Value field for the Collection level PSAs.

A:As recommended.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Collection		Provider		Model Modifications
PSA		Client		
API-Data				

| 56 | | | | Update | 6/3/2002 | Closed | ☑ |

D:What information does ECHO need to support Orbital Searches?

R:Need a list of information that ECHO may want to maintain in order to support client level Orbital Searches. Possibly maintain a reference model of information for sensors, instruments, Orbits etc. This discussion is tabled for a telecon with Mike Botts, Ted Willard and Ross Swick. Need to contact Ben Kobler.

C:Telecon held 7/24/2002. No resolution yet.

A:Arrange a telecon with Mike Botts, Ted Willard and Ross Swick. Also ask Ben Kobler.

11/12: Maitreyee will send a list of what in the data model will address orbital searches to these guys. We are assuming we have it all.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Provider	Client		Spatial
Granule				
Spatial				
Query Language				
Orbital				

| 59 | GR_INSTRUMENT_CHARACTERISTICS | All | | Add | 6/13/2002 | Closed | ☑ |

D:Instrument Characteristics can differ at the Granule level.

R:Add a GR_INSTRUMENT_CHARACTERISTICS. Modify the ingest DTD to support this

A:As recommended.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Granule	Provider	Provider	Ingest Granule DTD	Model Modifications
API-Data		Client	Results Granule DTD	

| 148 | | REPEAT_CYCLE | | Add | 9/5/2002 | Closed | ☑ |

D:Another field that users (particularly applications users) want that ECS doesn't have (and therefore ECHO doesn't have) is repeat cycle (how often does the dataset repeat over a given site) e.g. for landsat its like 14 or 16 days but it varies by instrument.

We need to add this metadata field to ECHO.

A:11/12: Not a searchable element. Make it part of the collection model.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Temporal		Client	Ingest Collection DTD	Temporal
			Results Collection DTD	

| 146 | PSA_DEFINITION | PSA_VALUE | Add | 7/16/2002 | Closed | ☐ |

D:In the results returned for PSAs, there should be an indication whether the PSA has a value at the Collection level or at the granule level

R:We need to capture the concept of the template of a granule PSA that is viewable from the collection.

C:If the results are set up as always to return a Value at the Collection level if it exists, does that satisfy this requirement? Can the same PSA have a value at the Collection level and at the granule Level?

A:We want to be able to distinguish between the two types within the model. Change the model to accommodate clearly specifying the PSA type. We do not need to return it because it can be inferred because if there is no value at the collection level, then it is a granule PSA. The ingest proxy or BMGT will have to change to accommodate telling us what the setting should be.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Results		Client	Results Collection DTD	Model Modifications
API-Data				
Collection				
Granule				

| 52 | | | | | Closed | ☑ |

D:Should ECHO maintain spatial information for Browse? Some clients that are Browse driven (EDC) may want to correctly super impose the browse on the earth. Do they need more projection and spatial information related to the Browse to support this functionality? Is the information on projection and spatial extent for the browse the same as the granule they represent? Need to revisit this in the Client View Review, Providers need to elaborate on types of Browse and how EDC's requirement could be satisfied

R:Need spatial information for browse. Default could be the same as the granule. ECHO should have a place for the spatial XML for the browse, something indicating that it is the same as the granule, and something indicating there is none.

C:Browse's spatial could be the same as the granule. AIRS browse requires spatial information be associated with the browse. There is a composite browse that holds multiple granules. Browse may have NO spatial characteristics.

A:Investigate AIRS browse to make sure it fits. Contact AIRS POC. Contact ECS/Guy Swope regarding this since they have to support giving it to ECHO. Contact MODIS Global browse group. Robin will ask Bill Ridgeway for a POC.

11/12: This is really a longterm issue. This is forward looking- not that many are doing it yet, but obviously a desired feature. Yes, it needs to be done. Ask EDG, etc. about what is necessary.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Granule	Client	Client	Ingest Browse DTD	Spatial
Spatial	Provider		Results Granule DTD	
Results	EDG			
Browse	AIRS POC (Stephanie (			
	ECS			

| 67 | COLL_VIEW | | Add | | Closed | ☑ |

D:Define a View (ViewName and ViewDescription) at the Collection level that will help automate the mechanism for Validation of metadata at the Collection/Granule levels. This is Robin's recommendation
Add a field called "View", that characterizes the "view" of the data. Whether its geo view, solar view, and limb view.... This will allow us to determine what fields are required or optional during metadata definition. E.g. if its geo-view, it must have geo-spatial information. There may be some types of data that have no temporal information. For these types of data, temporal would not be required, but it needs to be required for most types.

C:This could be the locality field (Issue 64).

A:ECHO needs to design validation using this information. Related to Issue 64. 9/16: Rich and Mike don't see the value of adding the view to the data model right now. This should be captured in the validation design in a more generic way. Solar is a spatial keyword.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Provider	ECHO Ops	Ingest Collection DTD	Model Modifications
Ingest			Results Collection DTD	
API-Data				

| 109 | | | | | Closed | ☐ |

D:Need to provide a sample Options XML that defines the options for Landsat 7 floating Scene Options
C:Received sample in ODL format.
A:ECHO needs to go do this.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
API-Data				Trivial Maintenance
Collection				
Order Options				

| 91 | ALL_GRANULES | VERSION_ID | | 6/27/2002 | Closed | ☑ |

D:Add VersionID element for the Granule under the GranuleURMetaData
A:Related to issue 39. Redundant to 39.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
API-Data	Rich Ullman		Ingest Granule DTD	Model Modifications
Granule			Results Granule DTD	

	ID	Table Description/	Column Recommended Action/	Action Comment/	Action	First Discussed	Status	BMGT

ChangeType: Internal

| | 28 | ADDITIONAL_ATTRIBUTES | All | | Update | 6/3/2002 | Closed | ☐ |

D:Maintain consistency in naming tables/columns for PSAs

R:Rename Additional Attributes table as PSA_DEFINITION. Rename columns to confirm to this nomenclature.

A:As recommended.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
PSA		Provider		Trivial Maintenance
API-Data		Client		

| | 49 | | | | Update | 6/13/2002 | Closed | ☐ |

D:Rename All ECHO specific dates that start with LOCAL_ to start with ECHO_ in the database.

C:At the API level they are already prepended by "ECHO". E.g. ECHOLastUpdateDateTime

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Collection				Trivial Maintenance
Granule				
Dates				

ChangeType: No Action

115   Closed ☐

D:ISSUE: One day, we may deal with more than one monetary unit. Not recommending any changes currently.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Collection			Provider Order Proxy DT	Model Modifications
API-Transactions				
Provider Order Interactions				

12   6/3/2002   Closed ☑

D:Does ECHO need to support MultiType Collections? One option is to eliminate all attributes in the current model that specifically support MultiType Collections in ECS. Another option is to design support for MultiType Collections even if it not implemented.

R:Remove all attributes in the current model that specifically support MultiType Collections in ECS.

C:In order to design for MultiType Collections ECHO would need to better understand the nature of MultiType Collections and what kind of support will be needed to support Queries and Orders of MultiType Collections.

A:There are no requirements for multitype collections in ECHO at this time. ETAL will talk about themed collections.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Collection	IIST	Provider	Ingest Collection DTD	MultiType Collections
API-Data	George Percivall	Client		
MultiType Collections				

70   6/13/2002   Closed ☐

D:Assess the effect of storing data from each Provider is in its own schema on ECHO's support for Theme Collections if the Theme Collection is a collection of data from different Providers.

A:Defer until we get themed collections going.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Collection	ECHO			Model Modifications
API-Data				
MultiType Collections				

63   GR_INPUT_GRANULE   Remove   6/13/2002   Closed ☑

D:Remove GR_INPUT_GRANULE

R:Follow up with providers (GSFC) to see if this data is pertinent for clearinghouse users.

A:9/19: Rich thinks this is useful information in the clearinghouse. Do not remove. This is not a candidate for search.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Granule	Provider	Provider	Ingest Granule DTD	Model Modifications
API-Data		Client	Results Granule DTD	

ID	Table	Column	Action	First Discussed	Status	BMGT
	Description/	Recommended Action/	Comment/			
			Action			
8	ALL_COLLECTION	ShortName, VersionID	Update	6/3/2002	Closed	☐

D:If DataSetID is made the mandatory field that the Providers will send as the unique identifier for their Collections, should ECHO continue to mandate that the ShortName + VerionID be unique for a Provider?

R:Remove the requirement

A:Inform the Providers that this is no longer required. 2/13 KOW> Duplicate of 7.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Collection	Provider	Provider	Ingest Collection DTD	Trivial Maintenance
API-Data		Client		
Collection/Granule Naming				

58	PSA_DEFINITION		Update	6/13/2002	Closed	☐

D:What PSAs should ECHO promote?

R:Jon Pals will review and recommend a set of PSAs to promote.

A:11/12: None- fine as is.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Collection	Jon Pals	Client		Model Modifications
Granule		Provider		
PSA				
Query Language				

3	ALL_COLLECTION	Maintenance Update Frequency	Update	6/3/2002	Closed	☑

D:Not very useful

R:Ask ECS if this field is used. Meeting notes from 6/13/2002 ask to keep this information.

A:Do not remove from DM

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Collection	ECS	Client	Ingest Collection DTD	Model Modifications
API-Data			Results Collection DTD	

105			Remove	6/27/2002	Closed	☑

D:Remove InputGranule and InputPointer from the Granule Ingest DTD

A:Depends on issue 63. 9/19: 63 was closed today with a decision not to implement the change, therefore this one is moot. Do not remove.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Granule			Ingest Granule DTD	Model Modifications
API-Data			Results Granule DTD	

| 15 | | | | 6/3/2002 | Closed | ☐ |

D:Janet will provide information about MultiType Collections/ Collection Manual

A:ECHO needs to review the manual

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection				MultiType Collections
MultiType Collections				

| 19 | ANALYSIS_SOURCE | All | | 6/13/2002 | Closed | ☐ |

D:How can a Client search for data in ECHO that uses Analysis Source instead of Platform? Currently there is no search criteria on Analysis Source. Do the Clients need to search this data using the "source" mechanism? Or do they use some other mechanism to search this data?

R:Get input from the Clients

C:Also need to talk to Providers to see who has this kind of data.

A:Talk to Jon Pals to see how it is populated today. Recollection is that analysis source is to be combined with Platform.   Do they ever populate both analysis source and platform? Sounds like they are two subtypes of the same type. Desire is to represent as a single super-type. 10/24: Closed because analysis source and platform have been combined. 2/13 KOW> Duplicate of 18

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Client	Client	AQL DTD	AQL
Query Language	Provider			
	Jon Pals			

| 26 | | | Add | 6/3/2002 | Closed | ☐ |

D:There is a request to add a field called "NominalResolution" at the Collection level that indicates the resolution of the data, e.g. 25 meters, 1 sq. mile etc. Should this field be a text based search or a range search on a number? Does the value in this field depend on the data context like it takes value "25" (meters) for Landsat data but takes value "1" (mile) for some other data. How would range search be performed across all Collections if the units of measure vary?

A:This field should be a number in meters. It should be range searchable. 2/13 KOW> Duplicate to 25.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Provider	Client	AQL DTD	Model Modifications
Spatial	Client			AQL
Query Language				
API-Data				

| 26 | | | Add | 6/3/2002 | Closed | ☐ |

D:There is a request to add a field called "NominalResolution" at the Collection level that indicates the resolution of the data, e.g. 25 meters, 1 sq. mile etc. Should this field be a text based search or a range search on a number? Does the value in this field depend on the data context like it takes value "25" (meters) for Landsat data but takes value "1" (mile) for some other data. How would range search be performed across all Collections if the units of measure vary?

A:This field should be a number in meters. It should be range searchable. 2/13 KOW> Duplicate to 25.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Provider	Client	AQL DTD	Model Modifications
Spatial	Client			AQL
Query Language				
API-Data				

| 149 | | | Add | 8/12/2002 | Closed | ☐ |

D:What is the mime type for HDF files?

C:This is what Mike Folk (from NCSA/UIUC) had to say : "I understand that a mime type was defined for HDF a long time ago, but I don't know the details, and I don't know if they went through the formal process. The extension that was used was 'hdf', but that of course would apply to the old version of HDF, which we now call HDF4. I'm pretty sure nothing was done for HDF5". Links to Mime related information can be found at http://www.nacs.uci.edu/indiv/ehood/MIME/MIME.html

A:11/12: Rich: There is no defined MIME type, but several groups are using application/x-hdf. Use application/x-hdf5. Use application/x-hdfeos. Use application/x-hdfeos5. Rich is planning to register them so they will not have the x- in front. ECHO takes no action here.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Granule				Trivial Maintenance

| 23 | COLL_ASSOCIATION | All | | 6/3/2002 | Closed | ☑ |

D:Remove CollectionAssociation from ECHO. Not sure what this metadata is used for. Need to confer with Rich Ullman the use of CollectionAssociation information.
Currently we have data from EDC for this field. A sample:

```
<CollectionMetaData>
 <DataSetId>ASTER Level 2 Brightness Temperature at the Sensor V001</DataSetId>
 <CollectionAssociation>
  <AssociatedShortName>AST_L1BT</AssociatedShortName>
  <CollectionType>Dependent</CollectionType>
  <CollectionUse1>Science Data from which AST_04 is generated.</CollectionUse1>
 </CollectionAssociation>
 <CollectionAssociation>
  <AssociatedShortName>AST_09V</AssociatedShortName>
 </CollectionAssociation>
 <CollectionAssociation>
  <AssociatedShortName>AST_09T</AssociatedShortName>
 </CollectionAssociation>
 <CollectionAssociation>
  <AssociatedShortName>AST_07S</AssociatedShortName>
  <AssociatedVersionId>1</AssociatedVersionId>
  <CollectionType>Input</CollectionType>
  <CollectionUse1>Primary input for Level 2 processing </CollectionUse1>
 </CollectionAssociation>
</CollectionMetaData>
```

A:Leave this in the model.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Rich Ullman	Provider	Ingest Collection DTD	Model Modifications
API-Data		Client	Results Collection DTD	

| 118 | | | | 7/17/2002 | Closed | ☐ |

D:Janet will send the URL of the team that is trying to be ISO compliant

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
ISO				Model Modifications

ChangeType: Update

78	ALL_COLLECTIONS		Update	6/19/2002	Closed	☑

D:Combine SuggestedUsage1 and SuggestedUsage2 to SuggestedUsage

A:Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection			Ingest Collection DTD	Trivial Maintenance
Results			Results Collection DTD	
API-Data				

46		GLOBAL	Add	6/13/2002	Closed	☑

D:There are some granules that are Global. Oracle cannot ingest them into the Spatial field. How should these granules be searched on.

R:Add 2 fields at the Collection level 1. Global - A flag that indicates all the granules in this Collection are truly global, 2. A flag (name TBD) that indicates all the granules in the Collection have the same spatial extent. Maintain the Global Flag at the Granule level to indicate that the granule is Global. Need to add this as a field in the ingest DTD that must be provided by the Provider.

C:Should these granules be searched for separately or included in results from a spatial search if applicable?

A:We must have a flag in the spatial part of an AQL query that tells us whether to include global in spatial search results. This means that ECHO must capture the information at ingest.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Provider	Client	Ingest Collection DTD	Spatial
Spatial	Client		Results Collection DTD	
Query Language				
Global				

7	ALL_COLLECTIONS	DataSetID	Add	6/3/2002	Closed	☑

D:Currently there is no single field that uniquely identifies a Collection for a particular Provider. The Providers agreed (at the Provider Workshop) that the ShortName + VersionId will be unique in their system. The ShortName is not very descriptive and we needed one name that these Collections will be known by. So ECHO recommends that we add a field called DataSetID that will be sent by the Providers during ingest to uniquely identify their collections

R:Provider will send this during ingest as the unique identifier for the Collection in their system

A:Providers should agree on this. Remove the word descriptive. Provider will give ECHO a unique DataSetID-- OPS team will validate its uniqueness within ECHO by Provider and guide Provider to what it should look like. ECHO will no longer require ShortName+VersionID to be unique.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection		Provider	Ingest Collection DTD	Model Modifications
API-Data		Client		
Collection/Granule Naming				

ID	Table Description/	Column Recommended Action/	Action Comment/	Action	First Discussed	Status	BMGT
77	ALL_COLLECTIONS	PROCESSING_LE VEL_ID, PROCESSING_LE VEL_DESCRIPTIO N	Update		6/19/2002	Closed	☑

D:ProcessingLevelID will have a set of Valids within ECHO. Remove ProcessingLevelDescription. For each Provider the description of the processing level will be uniform across all collections. Hence this should be managed separately as part of valids. The description will now be at the data dictionary level.

A:Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Provider	ECHO Ops	Ingest Collection DTD	Model Modifications
API-Data			Results Collection DTD	

ID	Table	Column	Action	First Discussed	Status	BMGT
61	PATH_ROW		Update	6/13/2002	Closed	☐

D:Path Row is promoted to support faster searches. There was a interest in trying to define this search in a more generic fashion to not only include collections that have Path Row but any other collections that may have this kind of grid type of search possible. For example, MODIS tile data etc. May need to define Dimensions and names of Dimensions and name and type of the data.

A:Design appropriate stuff.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Granule	Provider	Client		Spatial
Query Language	Client			
Spatial	Ross Swick			
	John Olson			
	Rich Ullman			
	Robin Pfister			

ID	Table Description/	Column Recommended Action/	Action Comment/	Action	First Discussed	Status	BMGT
38	DISCIPLINE_TOPIC_K EYWORDS			Add	6/13/2002	Closed	☑

D:There are some DisciplineKeywords that have a relationship with the Platform-Instrument-Sensor that the Collections was gathered by. This relationship is not being currently captured by the DM. How best should DisciplineKeywords be modeled?

R:<!ELEMENT CollectionMetaData (. . ., DisciplineTopicParameters*, . . .)

<!ELEMENT DisciplineTopicParameters (CategoryKeyword, TopicKeyword, TermKeyword, VariableKeyword, DetailParameterKeyword*)>

<!ELEMENT CategoryKeyword (#PCDATA)> The elements DisciplineKeyword, TopicKeyword, TermKeyword and VariableKeyword in DisciplineTopicParameters must be required

<!ELEMENT TopicKeyword (#PCDATA)>

<!ELEMENT TermKeyword (#PCDATA)>

<!ELEMENT VariableKeyword (#PCDATA)>

<!ELEMENT DetailParameterKeyword (#PCDATA)>

<!ELEMENT Instrument (InstrumentShortName, . . ., DisciplineTopicParameters*)>

C:At the Provider Review meeting the first level parameter was called DisciplineKeyword. It has been changed to CategoryKeyword to be consistent with GCMD. John's email: What I was referring to was a situation in which there are a large number of sites (say 1200) that can use any of 6 instruments to measure the same quantity. An example would be the ozone monitoring network that the EPA has established. The last time I checked there were 5 instruments approved for measuring ozone concentrations. So if I wanted to include this
data in ECHO, I would want to include the collection/data set name
Ozone Monitoring Data and the parameter Ozone. But I probably wouldn't want to include the specifics on the instruments. Since there are daily files available, I would indicate within each file which instrument was
used at the particular location. *** Guy Swope emailed that ECS does not maintain this information.

A:Ask John Olson for a sample Collection that defines Geophysical parameters at the Collection level without the reference to Platform-Instrument relationship to the geophysical parameters. John has provided this. Need to decide what to do. Could use "ozone monitor: various" as the keyword.   The referenced stack from the instrument would be different from any referenced from the collection. The conceptual model is that the stack relates to the tuple of the collection and instrument. This is to deal with collections that have more than one instrument, and a particular stack only applies to one of the instruments. For instance, collection A has two instruments B and C. Stack 1 is associated with instrument B. Stack 2 is associated with instrument C. It is important that a query for collection A and instrument C not return stack 1. Accept the recommended action. Still need good conceptual document.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Provider	Client	Ingest Collection DTD	Keyword
API-Data		Provider	Results Collection DTD	Model Modifications
Discipline Keyword Stack				

| 38 | DISCIPLINE_TOPIC_K EYWORDS | | Add | 6/13/2002 | Closed | ☑ |

D:There are some DisciplineKeywords that have a relationship with the Platform-Instrument-Sensor that the Collections was gathered by. This relationship is not being currently captured by the DM. How best should DisciplineKeywords be modeled?

R:<!ELEMENT CollectionMetaData (. . ., DisciplineTopicParameters*, . . .)

<!ELEMENT DisciplineTopicParameters (CategoryKeyword, TopicKeyword, TermKeyword, VariableKeyword, DetailParameterKeyword*)>

<!ELEMENT CategoryKeyword (#PCDATA)> The elements DisciplineKeyword, TopicKeyword, TermKeyword and VariableKeyword in DisciplineTopicParameters must be required

<!ELEMENT TopicKeyword (#PCDATA)>

<!ELEMENT TermKeyword (#PCDATA)>

<!ELEMENT VariableKeyword (#PCDATA)>

<!ELEMENT DetailParameterKeyword (#PCDATA)>

<!ELEMENT Instrument (InstrumentShortName, . . ., DisciplineTopicParameters*)>

C:At the Provider Review meeting the first level parameter was called DisciplineKeyword. It has been changed to CategoryKeyword to be consistent with GCMD. John's email: What I was referring to was a situation in which there are a large number of sites (say 1200) that can use any of 6 instruments to measure the same quantity. An example would be the ozone monitoring network that the EPA has established. The last time I checked there were 5 instruments approved for measuring ozone concentrations. So if I wanted to include this
data in ECHO, I would want to include the collection/data set name
Ozone Monitoring Data and the parameter Ozone. But I probably wouldn't want to include the specifics on the instruments. Since there are daily files available, I would indicate within each file which instrument was
used at the particular location. *** Guy Swope emailed that ECS does not maintain this information.

A:Ask John Olson for a sample Collection that defines Geophysical parameters at the Collection level without the reference to Platform-Instrument relationship to the geophysical parameters. John has provided this. Need to decide what to do. Could use "ozone monitor: various" as the keyword.   The referenced stack from the instrument would be different from any referenced from the collection. The conceptual model is that the stack relates to the tuple of the collection and instrument. This is to deal with collections that have more than one instrument, and a particular stack only applies to one of the instruments. For instance, collection A has two instruments B and C. Stack 1 is associated with instrument B. Stack 2 is associated with instrument C. It is important that a query for collection A and instrument C not return stack 1. Accept the recommended action. Still need good conceptual document.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Provider	Client	Ingest Collection DTD	Keyword
API-Data		Provider	Results Collection DTD	Model Modifications
Discipline Keyword Stack				

| 85 | DISCIPLINE_KEYWOR DS | | | 6/19/2002 | Closed | ☑ |

D:One or more DisciplineTopicParameters are required in the Instrument group. Currently we know ORNL maintains this information. Does ECS maintain this information?

C:Guy says they don't hold this information.

A:Question: Since ECS does not maintain this, how do we get it into ECHO for datasets that have multiple instruments in ECS? 9/18 Rich said that as far as he knows ECS collections have only 1 instreument, in which case the relationship can be derived and the corresponding data updated.
11/12: Make the change, assume BMGT provided collections only have 1 instrument…

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	ECS	Client	Ingest Collection DTD	Keyword
Discipline Keyword Stack			Results Collection DTD	IngestProxy

| 114 | | | | | | Closed | ☐ |

D:Need to be able to manipulate options at the dataset/collection level. Currently only support line items, provider order and order level.

A:Analyze and do it.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Collection		Provider	Provider Order Proxy DT	Trivial Maintenance
API-Transactions		Client		
Provider Order Interactions				
Order Options				

| 98 | Orbit | | | | | Closed | ☑ |

D:Remove OrbitModelName from the database and DTD. Remove StartCircularLatitude, EndCircularLatitude from the OrbitCalculatedSpatialDomain element in the DTD because these can be derived from the other information provided. Rename EquatorCrossingLongitude as AscendingEquatorCrossingLongitude. Combine EquatorCrossingTime and EquatorCrossingDate as AscendingEquatorCrossingDateTime and it should include both, the date and time.

R:Remove OrbitModelName completely. Start and End circular latitude and longitude will be calculated by ECHO based on other fields already there at the granule level (direction, start lat, start lon)-- these are only to support backtrack search, and are therefor being removed from the ingest DTD. Equator Crossing date and time are being combined into Ascending Equator Crossing Date Time.

C:Affects Granule DTD.

A:Waiting on Ross and Ted.
11/12: Accept into the conceptual model.
2/13 KOW> This should be related to the backtrack work.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Granule	Ross Swick	Provider	Ingest Granule DTD	Trivial Maintenance
Collection	Ted Willard	Client	Results Granule DTD	
Spatial				

| 116 | | | Update | | | Closed | ☑ |

D:Make addresses in science model consistent with business model
C:Use ISO Standard as basis for both.
A:Do it.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
API-Data		Provider	Ingest Collection DTD	Trivial Maintenance
Collection		Client	Results Collection DTD	
Provider Order Interactions				

| 117 | | | Update | | 7/17/2002 | Closed | ☐ |

D:Need to talk with Ben and George Percivall about the relationship between granules and Collections in ECHO and Dataset and Dataset Series concepts in ISO
A:ECHO team will ask George.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
ISO	Ben Kobler	Provider		Trivial Maintenance
DM Definitions	George Percivall			

| 120 | | | | | | Closed | ☐ |

D:Need to follow ISO Standard for Addresses. Need to increase the number of StreetAddresses from 1 line to 5 lines (ISO 11180 Annex A)

A:Do it. Related to issue 116.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
ISO			Ingest Collection DTD	Trivial Maintenance
			Results Collection DTD	
			Provider Order Proxy DT	

| 121 | | | | | 7/17/2002 | Closed | ☐ |

D:ECHO needs to support one fixed Metadata Character Set

A:Pick one and report to ETAL.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
ISO				Trivial Maintenance

| 124 | | | Remove | | 7/16/2002 | Closed | ☐ |

D:Remove the "for" element from AQL. The "for" element identifies whether the Query is for Collections or Granules. But the "Where" element allows only either all GranuleCondition elements under it or CollectionCondition elements. So by looking at the Conditions in the where clause we can figure out whether the Query is for Collections or Granules.

C:This may be a problem for a Query on Collections that tries to get the names of all the collections. In this case the Where clause would be empty with no conditions defined. That would make it impossible to know whether the Query is for Granules or Collections. Alternatively we can define a rule that a Query with NO conditions must be a Collection Query because otherwise the query would result in too many granules to be returned?

A:Do it according to comment.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Query Language		Client	AQL DTD	AQL
		ECHO		

| 126 | | | Update | | 7/16/2002 | Closed | ☐ |

D:In AQL, rename OnlineOnly condition as OnlyOnlineData. Remove the value attribute that takes only one value "Y".

C:See other Issues on OnlineAccessURL (31-35)

A:Do it.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Query Language		Client	AQL DTD	Online
Online				AQL

| 75 | ALL_COLLECTION | DESCRIPTION | Update | | 6/19/2002 | Closed | ☑ |

D:CollectionDescription should be made mandatory. At the ISO Compliance meeting we realized that LongName should be made mandatory as well.

A:Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
API-Data		Provider	Ingest Collection DTD	Trivial Maintenance
Ingest		Client	Results Collection DTD	
Collection				

| 126 | | | Update | | 7/16/2002 | Closed | ☐ |

D:In AQL, rename OnlineOnly condition as OnlyOnlineData. Remove the value attribute that takes only one value "Y".

C:See other Issues on OnlineAccessURL (31-35)

A:Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Query Language		Client	AQL DTD	Online
Online				AQL

| 110 | | | | | 7/16/2002 | Closed | ☐ |

D:Throughout the ECHO-> Provider message interactions:

    Make capitalization uniform.

    Modify *Date to *DateTime

    In cases where there are limited responses (Response:accept/reject,   updateMechanism:manual/none, USFormat:yes/no), use an XML mechanism to enforce the selection constraint.

A:Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
API-Transactions			Provider Order Proxy DT	Trivial Maintenance
Dates				

| 85 | DISCIPLINE_KEYWOR DS | | | | 6/19/2002 | Closed | ☑ |

D:One or more DisciplineTopicParameters are required in the Instrument group. Currently we know ORNL maintains this information. Does ECS maintain this information?

C:Guy says they don't hold this information.

A:Question: Since ECS does not maintain this, how do we get it into ECHO for datasets that have multiple instruments in ECS? 9/18 Rich said that as far as he knows ECS collections have only 1 instruement, in which case the relationship can be derived and the corresponding data updated.

11/12: Make the change, assume BMGT provided collections only have 1 instrument…

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	ECS	Client	Ingest Collection DTD	Keyword
Discipline Keyword Stack			Results Collection DTD	IngestProxy

| 127 | DISCIPLINE_KEYWORD, DETAIL_PARAMETER _KEYWORD | | Update | | 7/16/2002 | Closed | ☐ |

D:The search on "parameter" should search on the last 2 levels of the Discipline Keywords hierarchy. The search on parameter must return those collections/granule that have the specified keywords in either the VARIABLE or DETAIL_PARAMETER columns.

A:Do it.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Query Language		Client	AQL DTD	AQL
Discipline Keyword Stack				Keyword

| 142 | SPATIAL | | Add | | 7/16/2002 | Closed | ☐ |

D:Support spatial search using a Circle. Also consider providing spatial search by specifying a line and distance from the line that will form an Oblong.

A:Support circle. Check Oracle's capability for an oblong and report to ETAL.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Query Language		Client	AQL DTD	Spatial
Spatial				AQL

| 71 | ALL_COLLECTIONS | DATA_CENTER_ID | Update | | 6/19/2002 | Closed | ☑ |

D:Rename DataCenterId to ProviderID in the Ingest DTDs and Result DTDs

A:Do it.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Collection		Client	Ingest Granule DTD	Trivial Maintenance
API-Data			Ingest Collection DTD	
Name changes in DTD			Ingest Browse DTD	
			Ingest Options DTD	
			Results Collection DTD	
			Results Granule DTD	

| 145 | | | Add | | 7/16/2002 | Closed | ☐ |

D:Support AND within a search criteria. For example if the search is on a list of sensor short names. Return granules that have ALL the sensors specified in the list.

R:Support this AND functionality for Sensor, Platform and Instrument?? (Robin I am not sure if this is the exact list)

A:Check slides from previous workshops and do it.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Query Language		Client	AQL DTD	AQL

| 142 | SPATIAL | | Add | 7/16/2002 | Closed | ☐ |

D:Support spatial search using a Circle. Also consider providing spatial search by specifying a line and distance from the line that will form an Oblong.

A:Support circle. Check Oracle's capability for an oblong and report to ETAL.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Query Language		Client	AQL DTD	Spatial
Spatial				AQL

| 87 | | | | | Closed | ☑ |

D:Rename AdditionalAttributes to PSAs. Define PSAs to contain 1 or more PSA. Each PSA group will be defined as

<!ELEMENT PSA (PSAName, PSADataType, PSADescription, MeasurementResolution?, PSARangeBegin?, PSARangeEnd?, PSAUnitsOfMeasure?, PSAValueAccuracy?, PSAValueAccuracyExplanation?, PSAValue*)>

A:Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
API-Data		Provider	Ingest Collection DTD	Trivial Maintenance
PSA		Client	Results Collection DTD	

| 74 | | | Update | 6/19/2002 | Closed | ☑ |

D:Eliminate the DefaultPackage information that describes the Order options that apply to the Collections specified in this particular ingest XML file. Order options should be defined by the provider using the OrderOptionsUpdate.dtd. Need to add an element OrderOptionName that will identify the option for the Collection from one of the pre-defined options

R:This field is optional but if the Collection is orderable then this field should be made mandatory.

A:We do not need to allow granules within a single dataset to have multiple options definitions. There will be one set of order options for a dataset. The preference is to have a default for the provider and to allow datasets to inherit or override that default.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Provider	Provider	Ingest Collection DTD	Trivial Maintenance
API-Data		Client		
Order Options				

| 127 | DISCIPLINE_KEYWORD, DETAIL_PARAMETER_KEYWORD | | Update | 7/16/2002 | Closed | ☐ |

D:The search on "parameter" should search on the last 2 levels of the Discipline Keywords hierarchy. The search on parameter must return those collections/granule that have the specified keywords in either the VARIABLE or DETAIL_PARAMETER columns.

A:Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Query Language		Client	AQL DTD	AQL
Discipline Keyword Stack				Keyword

| | | | | | | Closed | ☑ |

D:How should a provider specify that an item (Collection or granule) is orderable?

R:Add an empty optional element Orderable. This must be specified if the entire Collection is orderable as a whole through ECHO. This would also apply for granules. The flag should be available in the results.

C:Should we consider requiring providers to support returning a collection when a granule is ordered? This has the issue of who maps the correct number of collections

A:As recommended.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Provider	Client	Ingest Granule DTD	Model Modifications
Granule			Ingest Collection DTD	
API-Data			Results Collection DTD	
			Results Granule DTD	

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150 ALL_GRANULES LOCAL_GRANULE_ID Update Closed ☑

D:Rename LocalGranuleId to ProducerGranuleID

A:11/12: Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
				Trivial Maintenance

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140 Update 7/16/2002 Closed ☐

D:A lot of the search criteria that are text based, e.g. PlatformShortName, CampaignShortName etc support search on a value, list and a textPattern. Since a list is allowed to have a single entry it is the same as value, remove value as one of the options.

A:Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Query Language		Client	AQL DTD	AQL

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128 DISCIPLINE_KEYWORD, DETAIL_PARAMETER_KEYWORD All Add 7/16/2002 Closed ☐

D:Each level of the Discipline Keywords Hierarchy except the first level (which is always "Earth Science" for ECHO), I.e. Term, Topic, Variable and DetailParameter should be individually searchable, and the combination of them should also be searchable with an implied AND. The ability to OR among different parameter levels/types is needed.

A:Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Query Language		Client	AQL DTD	Keyword
Discipline Keyword Stack				AQL

ID	Table Description/	Column Recommended Action/	Action Comment/	Action	First Discussed	Status	BMGT
128	DISCIPLINE_KEYWORD, DETAIL_PARAMETER _KEYWORD	All	Add		7/16/2002	Closed	☐

D:Each level of the Discipline Keywords Hierarchy except the first level (which is always "Earth Science" for ECHO), I.e. Term, Topic, Variable and DetailParameter should be individually searchable, and the combination of them should also be searchable with an implied AND. The ability to OR among different parameter levels/types is needed.

A:Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Query Language		Client	AQL DTD	Keyword
Discipline Keyword Stack				AQL

ID	Table Description/	Column Recommended Action/	Action Comment/	Action	First Discussed	Status	BMGT
125				Update	7/16/2002	Closed	☐

D:Rename all Date elements so that they are appended with the "DateTime". For example rename ECHOInsertDate to ECHOInsertDateTime, DateRange to DateTimeRange, etc. This is for the query language.

A:Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Query Language		Client	AQL DTD	AQL
Dates				Trivial Maintenance

ID	Table Description/	Column Recommended Action/	Action Comment/	Action	First Discussed	Status	BMGT
24				Add	6/3/2002	Closed	☐

D:ECHO should support collection search based on period information. Whether the granules are gathered monthly, weekly etc. Does GCMD maintain valids for temporal keywords. Are the periodic keywords (Monthly, Weekly, etc) part of those valids? Do the Providers provide this information currently? Could also be Jurassic, Spring, Paleolithic.

R:This periodic information should be part of Temporal Keywords in ECHO

C:Seems to be a mix of periodicity and era keywords.

A:Check with GCMD whether they support Temporal Keywords. Check with Providers/ECS whether this information is available. Related to Issue on Repeat Cycle (issue 148) ** 9/27 Gene Major replied that
**GCMD: The temporal keywords you speak of actually are temporal
resolution keywords. We are considering establishing a set of
temporal resolution keywords (see below). We do have a controlled set
of geological era keywords (called chronostratigraphic units) which
are available on our site and these are related to specific geologic
time periods: http://gcmd.nasa.gov/Resources/valids/chrono_unit.html.
We would certianly welcome any suggestions for temporal keywords or
temporal resolution keywords.

We have been considering adopting the following set of temporal
resolution valids:
Valids for Spatial Resolution

Less than 1 meter, 1 meter - 10 meters, 10 meters - 100 meters, 100 meters - 1 km
1 km - 10 km, 10 km - 100 km, greater than 100 km

Valids for Temporal Resolution

Less than 1 second, 1 second - 1 minute, 1 minute - less than 1 hour
Hourly, Daily, Weekly, Monthly
Hourly Climatology, Daily Climatology, Pentad Climatology, Weekly Climatology, Monthly climatology
Annual, Annual climatology, Decadal
*Climate Normal (30-year climatology

10/24: Accept GCMD Valids.
2/13 KOW> Also affects ingest refactoring.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Query Language	ECS	Provider		Keyword
Temporal	Provider	Client		
Keywords				

ID	Table Description/	Column Recommended Action/	Action Comment/	Action	First Discussed	Status	BMGT
125				Update	7/16/2002	Closed	☐

D:Rename all Date elements so that they are appended with the "DateTime". For example rename ECHOInsertDate to ECHOInsertDateTime, DateRange to DateTimeRange, etc. This is for the query language.
A:Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Query Language		Client	AQL DTD	AQL
Dates				Trivial Maintenance

ID Table Description/	Column Recommended Action/	Comment/ Action	Action	First Discussed	Status	BMGT
144			Update	7/16/2002	Closed	☐

D:Support Exception in the Query. For example if search on Spatial Polygon, a flag setting should allow the results to contain all granules that intersect the spatial given as well as those granules that have no spatial information. In other words return results that have "NULL" data for the condition specified.

R:Try to support this flag for each search criteria.

C:What about PSAs? If we allow exceptions to be returned for a particular PSA it basically means return all the data. For example if a user types in a PSA that does not exist in our system and sets the flag to return all data with Exceptions, all the data will need to be returned!!

A:Client training should indicate that there is a potential problem if you use this. Examine the possibility of controlling incoming queries based on recognizing a query that would return near-all results. Do as recommended.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Query Language	IIST	Client	AQL DTD	AQL
PSA				

ID Table Description/	Column Recommended Action/	Comment/ Action	Action	First Discussed	Status	BMGT
30	DISCIPLINE_KEYWOR DS	All	Add	6/3/2002	Closed	☐

D:What fields should be searchable for Discipline Keywords?

R:List of valid ECHO Discipline Keywords should be in sync with GCMD. GCMD supports 5 levels of Discipline Keywords. ECHO should continue to do this. Currently ECHO only supports search on the 4th level keywords. ECHO should support search where the user can ask to search in any specific level of the keywords. ECHO should also support search on more than one specific level (implies an AND).

C:At the Client Review meeting it was also decided that ECHO should support search on the last 2 levels together for 1 set of specified keywords (implies an OR)

A:As recommended.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Query Language		Client	AQL DTD	AQL
Discipline Keyword Stack				

| 2 | ALL_COLLECTION | Access constraint | Remove | 6/3/2002 | Closed | ☑ |

D:Access Constraint is a free text field that doesn't seem to be used very much. Rich Ullman looked at some sample data and it seemed to be filled with the word "None". 7/21- Rich observes that there are some labeled as "access restricted to authorized users."

R:Considering replacing this field by 2 fields, RestrictionFlag that indicates whether there is any kind of restriction and an optional RestrictionComment that would be used to indicate information about when/what is restricted and how this restricted data can be made available upon request.

C:This Issue was further discussed at the meeting on 6/19/2002. Decision made to Replace AccessConstraint with an optional group called Restriction. Define Restriction as <!ELEMENT Restriction ((OrderRestrictionFlag, OrderRestrictionComment)?, VisibilityRestrictionComment?)>

OrderRestrictionFlag will control access to order this data through ECHO. In case some of the data in this Collection is restricted, the OrderRestrictionComment must be filled in by the Provider to indicate information like contact information of person/s to contact if the user wants access to the data if any data in this Collection is restricted. The VisibilityRestrictionComment indicates contact information about person/s to contact to get access to some metadata in the Collection that may be restricted. (KOW- I recall a discussion of whether to honor the existence of the flag automatically. I believe the consensus was that if the flag is there, it should be honored automatically without having to create an additional DMS rule. What about VisibilityRestrictionFlag?)

A:ECHO must support updating of these fields through the API.

11/7: Rich says description field should map to Access Constraint (so remove AC, and add in description) We shall have a way for ECHO to allow constraints to be augmented with a description that can be used to find out how to get access. ECHO has a default message which Providers can override and can be overridden with the description provided with the rule that restricted it in the first place.

2/13 KOW: Net result is to create a field for Restriction Flag, and Restriction Comment. Use ACLs to actually apply a rule to restrict access. Consider allowing the ACL to provide the comment instead of putting it in the data model. Get rid of Access Constraint.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection		Provider	Ingest Collection DTD	ACL
API-Data		Client	Results Collection DTD	
ACL				

32	CONTACT		Update	6/3/2002	Closed	☑

D:How should ECHO maintain Contact information for each Collection?

R:Each Contact should be a Contact Person or a Contact Organization. Each of them should have 1 email, Telephone, ax, Address and URL. The Contact will also have a Role that does not need to be unique for each Collection. Remove Contact information at the Granule level. Contact is redefined as
<!ELEMENT Contact (Role, HoursOfService?, ContactInstructions?, (Organization|ContactPerson)>
<!ELEMENT Organization (OrganizationName, Address, Email, Telephone, Fax, ContactURL)>
<!ContactPerson (FirstName, MiddleName?, LastName, JobPosition?, OrganizationName?, Address, Email, Telephone, Fax)>
<!ELEMENT Address (StreetAddress, City, StateProvince, PostalCode, Country)>
<!ELEMENT StreetAddress (#PCDATA)>
<!ELEMENT City (#PCDATA)>
<!ELEMENT StateProvince (#PCDATA)>
<!ELEMENT PostalCode (#PCDATA)>
<!ELEMENT Country (#PCDATA)>
<!ELEMENT Telephone (TelephoneNumber, TelephoneType)>
<!ELEMENT TelephoneNumber (#PCDATA)>
<!ELEMENT TelephoneType (#PCDATA)>
<!ELEMENT Email (#PCDATA)>
<!ELEMENT FirstName (#PCDATA)>
<!ELEMENT MiddleName (#PCDATA)>
<!ELEMENT LastName (#PCDATA)>
<!ELEMENT JobPosition (#PCDATA)>
<!ELEMENT ContactURL (#PCDATA)>

C:Does any of the Contact information need to be made mandatory? Need to make sure that ISO view documentation maintains a highly descriptive map to the ECHO data model (either science, business or both).

A:There should be a minimum of a name (be it organization or a person) and email. We should make the science data model and the ECHO business model the same schema.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Provider	Provider	Ingest Collection DTD	Model Modifications
Granule	IIST	Client	Results Collection DTD	
ISO	Client			

113			Update	7/17/2002	Closed	☐

D:Regarding options, consider making the field "encrypted" something where XML enforces Yes/No rather than free text.
A:Do it (analyze it).

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
API-Transactions			Provider Order Proxy DT	Trivial Maintenance
Order Options				

123   6/13/2002   Closed   ☑

D:Do we want to maintain algorithm information at the granule level? This seems more useful than at the collection level.

A:We should just maintain an algorithm package identifier at the dataset level. We shall allow the granule to override this information. This is an unconstrained text field. It is implied to be unique within the provider's name space, but ECHO does not maintain information that it would link to. 10/3: Mike says maintain ID and description

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Granule	Rich Ullman	Provider	Ingest Granule DTD	Model Modifications
API-Data	Jon Pals	Client	Results Granule DTD	

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84   Update   6/19/2002   Closed   ☑

D:Combine Period1stDate and Period1stTime to one field called PeriodBeginningDateTime, combine PeriodEndDate and PeriodEndTime to PeriodEndingDateTime. Determine valids for Duration.

A:Ask ECS for valids for the PeriodDurationUnit.

11/12: Combine them..

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	ECS	Provider	Ingest Collection DTD	Trivial Maintenance
Temporal		Client	Results Collection DTD	

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73   Update   Closed   ☑

D:Replace all Date and Time related elements to end with DateTime by merging the Date and the Time element into one

C:Need to ask BMGT and providers whether they can combine the date and time into one.

A:The ECHO format should be: TBD/ISO Standard

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
API-Data	Provider	Provider	Ingest Granule DTD	Model Modifications
Dates	Guy Swope	Client	Ingest Collection DTD	
Name changes in DTD			Ingest Browse DTD	
			Ingest Options DTD	
			AQL DTD	
			Results Collection DTD	
			Results Granule DTD	

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82   Closed   ☑

D:Is the Spatial DTD consistent with GML? The Geometry group is based on GML. ECHO needs to find out what version of GML was used in this recommendation. The difference between GML and this recommendation are 1) GeometryClasses was renames Geometry, 2) Circle is not part of GML but ECHO will recommend to the GML group to add it into GML.

R:Recommend to GML group that Circle be added to their Geometry object. ECHO will use the GML specified names.

A:Lesley will check with Lou Reich. 10/24: Lou has promised to send the information. Recommendation is to not use GML's circle.

11/12: Evaluate moving all GML in ECHO to GML3.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Lou Reich	Provider	Ingest Granule DTD	Trivial Maintenance
Granule		Client	Ingest Collection DTD	
Spatial			Results Collection DTD	
			Results Granule DTD	

ID	Table Description/	Column Recommended Action/	Action Comment/	Action	First Discussed	Status	BMGT
111					7/17/2002	Closed	☐

D:Regarding quote and submit, consider making a uniform entity called orderdescription that both quote and submit handle

A:Analyze it, and do it if necessary.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
API-Transactions			Provider Order Proxy DT	Trivial Maintenance
Provider Order Interactions				

ID			Action			Status	BMGT
83			Update			Closed	☑

D:TimeType and DateType should be removed from the Temporal group. All Dates and Time should be according to the Gregorian Calendar and in GMT. RangeDateTime should be redefined as <!ELEMENT RangeDateTime (BeginningDateTime, EndingDateTime?)>

C:EndingDateTime is only optional for a collection. This field is used to describe the range of time represented by a granule or collection.

A:As described.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Collection		Provider	Ingest Granule DTD	Trivial Maintenance
Granule		Client	Ingest Collection DTD	
Temporal			Results Collection DTD	
Dates			Results Granule DTD	

ID			Action			Status	BMGT
108			Update			Closed	☑

D:Element 'Default' that is the default value of a SimpleOption should be renamed DefaultValue

C:Will eventually affect BMGT.

A:Do it.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
API-Data		Provider	Ingest Options DTD	Trivial Maintenance
Order Options				

ID						Status	BMGT
88						Closed	☑

D:What kind of information is maintained in CollectionAssociation? Is this information that would be in Guide Documents? (Question for Rich Ullman). Combine CollectionUse1 and CollectionUse2 under CollectionAsociation as CollectionUse.

R:Combine CollectionUse.

A:Rich says this information is useful to return, but not necessarily for search. Go ahead and combine the CollectionUse.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Collection	Rich Ullman		Ingest Collection DTD	Trivial Maintenance
API-Data			Results Collection DTD	

| 90 | | | Update | 6/19/2002 | Closed | ☐ |

D:Rename SpatialCoverage_Type under SpatialInfo as SpatialCoverageType

A:Do it.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
API-Data		Provider	Ingest Collection DTD	Trivial Maintenance
Spatial		Client		
Collection/Granule Naming				

| 92 | | | Update | 6/27/2002 | Closed | ☑ |

D:Replace CollectionMetaData* group by DataSetID or CollectionID required element in the granule ingest DTD. CollectionMetaData was a group of ShortName?, VersionID?, PrimaryFlag?, DataSetID. But since ShortName and VersionID are really Collection level metadata that is optional and primary flag is not to be used anymore, so there is no need to add an extra layer of CollectionMetaData group. PrimaryFlag is removed because this was used to indicate that the CollectionMetaData specified is the primary Collection of this granule, but now the provider should send in ONLY the DataCenterID of the Primary Collection of this granule, hence this flag is redundant.

A:As described.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Granule			Ingest Granule DTD	Trivial Maintenance
API-Data			Results Granule DTD	

| 94 | | | | | Closed | ☑ |

D:Replace the DataGranule group in the GranuleURMetaData by the actual elements in the group. This group was attempting to group elements that are unrelated, so the grouping does not make much sense.

A:As described.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Granule		Provider	Ingest Granule DTD	Trivial Maintenance
API-Data		Client	Results Granule DTD	

| 107 | | | Update | | Closed | ☑ |

D:Rename the root element from Options to OrderOptions and rename the DTD file to OrderOptionsUpdate.dtd

A:Do it.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
API-Data		Provider	Ingest Options DTD	Trivial Maintenance
Order Options				

ID	Table Description/	Column Recommended Action/	Action Comment/	First Discussed Action	Status	BMGT
96			Update	6/27/2002	Closed	☑

D:In the granule ingest DTD, make VerticalSpatialDomainType and VerticalSpatialDomainValue mandatory in the VerticalSpatialDomainContainer. Rename VerticalSpatialDomainContainer as VerticalSpatialDomain and rename VerticalSpatialDomain as VerticalSpatialDomains.

A:Do it.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Granule		Provider	Ingest Granule DTD	Trivial Maintenance
Spatial		Client	Results Granule DTD	
API-Data				
Name changes in DTD				

ID					Status	BMGT
97					Closed	☑

D:Rename ZoneIdentifierClass to ZoneIdentifier.

C:We may need the Coordinate Information with the ZoneIdentifier.

A:Do it.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Granule		Provider	Ingest Granule DTD	Trivial Maintenance
Spatial		Client	Results Granule DTD	
API-Data				
Name changes in DTD				

ID	Table	Column	Action	First Discussed	Status	BMGT
39	ALL_GRANULE	LOCAL_GRANULE_ID, LOCAL_VERSION_ID	Update	6/13/2002	Closed	☑

D:What do LocalGranuleId and LocalVersionId mean for ECHO?

R:Remove LocalGranuleId and LocalVersionId. According to Jon Pals these are specified by the data producer and not the archive center. ECHO does not have a concept of the data producer as a separate entity from the Provider, so this information does not appear to be relevant for ECHO. Redefine the VersionId field in the ALL_GRANULES table is defined to be the VersionId of the granule as provided by the Archive Center

C:"Redefine the VersionId field in the ALL_GRANULES table is defined to be the VersionId of the granule as provided by the Archive Center" This is what my notes said, but do I mean Provider here? Also at the Client Review meeting Mark Nestler mentioned that some users search on LocalGranuleId. Should we remove this field?

A:Determine the use of LocalGranuleId for search. Change LocalGranuleID to ProducerGranuleName. Change LocalVersionID to ProducerGranuleVersion. These will both be independently searchable, singular. Every LocalGranuleID must be unique within the provider's dataset. Pull definitions from ECS docs and modify if needed.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Granule	Client	Client	Ingest Granule DTD	Model Modifications
Query Language	Provider		Results Granule DTD	
DM Definitions				

ID	Table Description/	Column Recommended Action/	Action Comment/	Action	First Discussed	Status	BMGT
99				Update	6/27/2002	Closed	☑

D:Rename MeasuredParameter as MeasuredParameters (with an 's') and rename MeasuredParameterContainer as MeasuredParameter

A:Do it.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Granule			Ingest Granule DTD	Trivial Maintenance
API-Data			Results Granule DTD	
Name changes in DTD				

37				Update	6/3/2002	Closed	☐

D:Currently spatial extent defined as circles are not available as part of the spatial search. Oracle did not support storing the Circle data the way it is being ingested.

R: Circles will now be defined as center point and radius in Meters. ECHO will ingest these and the COLL_GEO_CIRCLE table will be removed. The same should be done for Granules with Circle spatial information

C:The net result is that providers will be able to ingest data described with a spatial region of a circle (center pt, radius) and clients will be able to search with a spatial region of circles.

A:As recommended. Need to get GML to update to accommodate circles.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Collection	Provider	Client		Spatial
Granule				
Spatial				
Query Language				
Ingest				
API-Data				

106	BROWSE	BROWSE_SIZE				Closed	☑

D:Rename BrowseSizeInBytes to BrowseSizeInKB. Rename the DB column name as well

A:Do it.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
API-Data			Ingest Browse DTD	Trivial Maintenance
Browse			Results Collection DTD	
			Results Granule DTD	

95				Update	6/27/2002	Closed	☑

D:Replace SingleDateTime to be a String element instead of a group of two elements in the DTDs.

A:Do it.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Granule		Provider	Ingest Granule DTD	Trivial Maintenance
API-Data		Client	Ingest Collection DTD	
Dates			Results Collection DTD	
			Results Granule DTD	

ID	Table Description/	Column Recommended Action/	Action Comment/	Action	First Discussed	Status	BMGT
66		ZONE_IDENTIFIER	Update		6/13/2002	Closed	☑

D:Move ZoneIdentifier into PlanarCoordinateSystem, Add a table to maintain the CoordinateSystemId and ZoneNumber at the granule level. Need more feedback from Providers to explain the relationship between ZoneIdentifiers, coordinate systems and granules. ECS does not currently provide Coordinate system information but does provide ZoneIdentifier at the granule level

C:9/19: Rich says that PathRow could be considered a zone, but that is not how it is used normally. Zone has four digit numeric codes. At the collection level, zone identifier gives you the coordinate system, but not sure if it applies to granules.

A:Ask Rich and Providers about relationship. 9/19: Rich doesn't know. We could ask Skip Reber. Refer to issue 16-- planar coordinate system was recommended to move to a PSA. Sounds like basic information that is not being provided very well through ECS. Seems like something that should be in the conceptual model.
11/12: ECS will now be providing the spatial coordinate information. Go ahead and move the zone id into PCS. Robin says it does make sense at the granule level.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Granule	Provider	Client	Ingest Granule DTD	Model Modifications
Spatial	Rich Ullman		Results Granule DTD	

ID	Table	Column	Action	Action	First Discussed	Status	BMGT
64	GR_LOCALITY		Update		6/13/2002	Closed	☑

D:Do we need to maintain GR_LOCALITY as separate metadata? Can this be modified to maintain spatial keywords at the Granule level?

R:GR_LOCALITY is being currently populated by some of the ECS Science Teams. This may contain a LocalityValue of "GLOBAL" when some granules are considered GLOBAL. Currently the Science Office is not dictating the data producers on what they mean by global (whether the Granule is truly global or is it almost covering the earth but not quite). This field was a recommendation from their Architect team. Also, is this field used for anything other than to indicate global granules? Another things stored there is (MLS Team) LIMB. Can these just be a spatial keyword? The concern is that GCMD may not maintain this in a way that works for us…

C:What is the difference between locality and spatial keywords? Jon Pals says it may not be strictly spatial, for instance "WETLANDS." Local surface is used for local sites. Ocean with case 1 sediments, ocean with case 2 sediments.

A:Rich says it should be a granule level spatial keyword. This maps to ECS's GR_LOCALITY locality value. **
9/27 Clarification: Replace GranuleLocality with SpatialKeywords at the Granule Level.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Spatial	Rich Ullman		Ingest Granule DTD	Keyword
Granule	ECS		Results Granule DTD	
Keywords	Jon Pals			

| 62 GR_CAMPAIGN | | Update | | Closed | ☑ |

D:Do we need a reference from the Granule to Campaign information or is it sufficient to maintain the reference through the Collection. Currently ECHO supports getting information for a Campaign through the Granule. BMGT also sends CampaignShortName as part of the Granule level metadata. Is this information that is required to be maintained at the Granule level? Also, would clients want to search for granules based on Campaign information? Need to re-visit in the Provider and Client View reviews. Previous discussions with ECS, reasoned this as, collections may be associated with multiple Campaigns but each granule within the collection may only be associated with a subset of these campaigns

A:11/12: Ask Oak Ridge to verify. Assumption is that collection is sufficient.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Collection	Provider	Client	Ingest Granule DTD	Model Modifications
Granule	Client		Results Granule DTD	
Query Language	Tim Rhyne			
	Julie Soja			

| 143 | | Update | 7/16/2002 | Closed | ☐ |

D:For a Temporal Query allow:
1. EndDay < StartDay would indicate e.g. Dec 2002 - Jan 2003
2. Add a Step Day to indicate instead of looking for all days, only every step day should be included.
3. Add StartTime and EndTime within each day.

A:Do it.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Query Language		Client	AQL DTD	AQL
Temporal				Temporal

| 143 | | Update | 7/16/2002 | Closed | ☐ |

D:For a Temporal Query allow:
1. EndDay < StartDay would indicate e.g. Dec 2002 - Jan 2003
2. Add a Step Day to indicate instead of looking for all days, only every step day should be included.
3. Add StartTime and EndTime within each day.

A:Do it.

Categories	**Contacts**	**Stakeholders**	**DTDs Affected**	**Issue Grouping**
Query Language		Client	AQL DTD	AQL
Temporal				Temporal

| 1 | ALL_COLLECTION | All | | 6/3/2002 | Closed | ☐ |

D:Is the Collection level Metadata always visible? Or should this also be under ACL Control? If the Collection is not visible all the granules under it are also not visible then how can the VisibilityRestriction comment on that Collection be made available to the users?

R:Collection level metadata also must be ACL controlled. But if a user is not able to see the Collection then they would not be able to get the VisibilityRestrictionComment (See next Issue) that tells them who to contact to get access to this Collection. Keith suggested that in case a Collection is not visible the Client will still be able to see the Name of the Collection (DataSetID) and the Restriction information.

C:Consider the case of test data coming into the system. In this case, it is probably desirable not to see the collection name at all… 9/19: Rich feels that you should be able to see that it exists, and put test data on another machine.

A:Accept Rich's comment. KOW 2/13: Collection Name and Restriction information should be visible in spite of ACL.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	IIST	Provider		ACL
ACL		Client		

| 81 | | | | 6/19/2002 | Closed | ☐ |

D:VerticalSpatialDomain should be an optional group in Spatial
A:Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection			Ingest Granule DTD	Trivial Maintenance
Spatial			Ingest Collection DTD	
			Results Collection DTD	
			Results Granule DTD	

| 86 | PLATFORM_CHARAC TERISTICS | | | | Closed | ☑ |

D:PlatformCharacteristic can take multiple values, so it is should be defined as PlatformCharacteristicValue*.
A:Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
API-Data		Provider	Ingest Collection DTD	Model Modifications
		Client	Results Collection DTD	

| 129 | | Update | | 7/16/2002 | Closed | ☐ |

D:Current Spatial search only searches for NON-Global granules/collections. Spatial search should support a flag that specifies whether global granules/collections should be included in the results or not.
C:This is related to issue ???.
A:Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Query Language		Client	AQL DTD	Spatial
Spatial				AQL

| 16 | | | | | 6/3/2002 | Closed | ☑ |

D:Does ECHO need to maintain the metadata about the Planar Coordinate System associated with the Collection?

R:Michael Burnett will talk with Stu Doescher whether ECHO should maintain Planar Coordinate System level metadata

A:9/16: Mike and Rich agree - make it a PSA. 10/3: Robin vehemently disagrees: This should be searchable. Altitude and depth datum names should be searchable.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Michael Burnett	Client	Ingest Collection DTD	Model Modifications
API-Data	Provider		Results Collection DTD	

| 54 | COLL_PSA, GR_PSA | | PSA_VALUE | | 6/13/2002 | Closed | ☐ |

D:Does ECHO need to support Multivalued/DuplicateValued PSAs?

R:ECHO needs to support PSAs to have more than 1 value. It is sufficient not to be able to supportDuplicate Values. PSAs will not support search on an ordered list of values, for example it will not support search on PSA that represents a road. If ordering needs to be maintained the PSA should be ingest as a single String value which has the values as a comma de-limited list.

C:If duplicate values are needed, a comma delimited list (with the limits that places on searching) will work. Jon Pals provided an example involving NOSE that needs an ordered list.

A:Will support multiple values associated with a single PSAName and will be searchable. Will not support duplicate values.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
PSA	Provider	Client	Ingest Granule DTD	Model Modifications
Query Language	Jon Pals		Ingest Collection DTD	
			Results Collection DTD	
			Results Granule DTD	

| 47 | | | | Update | 6/13/2002 | Closed | ☐ |

D:Rename the PKGID field in the ALL_GRANULES table so that it is more explicit and clarify its use in the Description both at the Collection and at the Granule level. PKGId is the reference to the order options for the collection/granule.

A:Make it clear.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection				Trivial Maintenance
Granule				
Order Options				

| 129 | | | | Update | 7/16/2002 | Closed | ☐ |

D:Current Spatial search only searches for NON-Global granules/collections. Spatial search should support a flag that specifies whether global granules/collections should be included in the results or not.

C:This is related to issue ???.

A:Do it.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Query Language		Client	AQL DTD	Spatial
Spatial				AQL

ID	Table Description/	Column Recommended Action/	Action Comment/	First Discussed	Status	BMGT
			Action			
10	ALL_COLLECTION	PRICE	Update	6/3/2002	Closed	☐

D:Clearly Define the Price of the Collection to be the Price of the Collection if it is ordered as a whole. The Total Price of all the granules in the Collection could be more than ordering a pre-burnt CD of the whole Collection. The Provider updates this field directly.

C:Perhaps change name to CollectionPRICE.

A:Update documentation.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Provider	Client		Trivial Maintenance
DM Definitions		Provider		

ID	Table	Column	Action	First Discussed	Status	BMGT
72			Update	6/19/2002	Closed	☑

D:Rename TemporalCoverage to FileTargetTemporalRange and the dates should be in Gregorian calendar instead of Julian dates. This represents the time range in which the granules described in this file have been, either inserted, updated or deleted at the Provider site.

C:This information is here for use by the OPS team. It is not really a data model issue, but useful for auditing.

A:Can Providers support Gregorian dates instead of Julian dates? Ops team prefers Gregorian. 2/13 KOW> Could be covered in ingest refactoring.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Ingest	Provider	Provider	Ingest Granule DTD	Trivial Maintenance
Name changes in DTD			Ingest Collection DTD	
			Ingest Browse DTD	

ID	Table	Column	Action	First Discussed	Status	BMGT
4	ALL_COLLECTION	RevisionDate, LastUpdateDateTime	Remove	6/3/2002	Closed	☑

D:Revision Date (According to Jon Pals) is the date this entry was first created/updated in any part of the DAAC system, either in Test Mode 1, Test Mode2 or Operations mode. Since ECHO is only concerned with the Operations mode of the DAACs this Date for ECHO would be the same as the LastUpdateDateTime. Rich Ullman says that the Revision Date is associated with the ESDT.

R:Remove RevisionDate from Collection level metadata. LastUpdateDateTime should be redefined in ECHO to be the date the Collection level metadata is last updated at the Provider site.

C:BMGT needs to push us the collection when the metadata changes, but the date that we want is the Revision Date which is the committee's date of the change.

A:Need to find out if Revision Date and LastUpdateDateTime are the same. Clearly define each datetime field. Analyze the ISO implication on revision date. Revision Date = Update time of the provider's template describing a collection. LastUpdateDateTime = Update time of the metadata at the provider describing a collection. These two definitions need to be validated. 9/15:Rich and Mike say that ECS's last update date time is likely to be the RevisionDate. So ECHO should only maintain one date time on behalf of the provider-ProviderMetadataRevisionDateTime- that will map to RevisionDate for ECS. ECS needs to tell us which one maps.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Collection	Provider	Client	Ingest Collection DTD	Model Modifications
API-Data	ECS	Provider	Results Collection DTD	
Dates	Rich Ullman			
	Janet Hylton			

ID	Table	Column	Action	First Discussed	Status	BMGT
42	ALL_GRANULES	PGE_NAME	Add	6/13/2002	Closed	☑

D:PGEVersion is a field in the GranuleMetadata but there is no indication of what Algorithm was used.

R:Allow for the PGEName to be incorporated for more information.
Replace PGEClass with an optional PGE group
    <!ELEMENT PGE (PGEName, PGEVersion?)

A:Accept as recommended.

Categories	Contacts	Stakeholders	DTDs Affected	Issue Grouping
Granule	Provider	Provider	Ingest Granule DTD	Model Modifications
API-Data		Client	Results Granule DTD	